



TORQ Analysis of Cutting and Slicing Machine Setters, Operators, and Tenders to Paper Goods Machine Setters, Operators, and Tenders

INPUT SECTION:

Transfer	Title	O*NET	Filters		
From Title:	Cutting and Slicing Machine Setters, Operators, and Tenders	51-9032.00	Abilities:	Importance Level: 50	Weight: 1
To Title:	Paper Goods Machine Setters, Operators, and Tenders	51-9196.00	Skills:	Importance Level: 69	Weight: 1
Labor Market Area:	Maine Statewide		Knowledge:	Importance Level: 69	Weight: 1

OUTPUT SECTION:

Grand TORQ:

90

Ability TORQ		Skills TORQ		Knowledge TORQ	
Level	95	Level	91	Level	85

Gaps To Narrow if Possible				Upgrade These Skills				Knowledge to Add			
Ability	Level	Gap	Impt	Skill	Level	Gap	Impt	Knowledge	Level	Gap	Impt
Auditory Attention	46	4	50	Critical Thinking	60	7	74	Production and Processing	55	12	76
				Reading Comprehension	54	6	69	English Language	40	7	71
				Learning Strategies	64	5	69				

LEVEL and IMPT (IMPORTANCE) refer to the Target Paper Goods Machine Setters, Operators, and Tenders. GAP refers to level difference between Cutting and Slicing Machine Setters, Operators, and Tenders and Paper Goods Machine Setters, Operators, and Tenders.

ASK ANALYSIS

Ability Level Comparison - Abilities with importance scores over 50

Description	Cutting and Slicing Machine Setters, Operators, and Tenders		Paper Goods Machine Setters, Operators, and Tenders		Importance
Problem Sensitivity	44		39		59
Arm-Hand Steadiness	48		42		59
Selective Attention	46		44		56
Control Precision	50		48		56
Near Vision	48		48		56
Oral Comprehension	48		44		53
Information Ordering	48		42		53
Manual Dexterity	46		41		53



Finger Dexterity	51			42		53
Oral Expression	48			42		50
Deductive Reasoning	42			37		50
Auditory Attention	42			46		50

Skill Level Comparison - Abilities with importance scores over 69





Description	Cutting and Slicing Machine Setters, Operators, and Tenders	Paper Goods Machine Setters, Operators, and Tenders	Importance
Operation Monitoring	62		62
Operation and Control	63		60
Critical Thinking	53		60
Equipment Maintenance	68		58
Time Management	50		48
Quality Control Analysis	62		50
Reading Comprehension	48		54
Learning Strategies	59		64

Knowledge Level Comparison - Knowledge with importance scores over 69

Description	Cutting and Slicing Machine Setters, Operators, and Tenders	Paper Goods Machine Setters, Operators, and Tenders	Importance
Production and Processing	43		55
English Language	33		40

Experience & Education Comparison

Related Work Experience Comparison			Required Education Level Comparison		
Description	Cutting and Slicing Machine Setters, Operators, and Tenders	Paper Goods Machine Setters, Operators, and Tenders	Description	Cutting and Slicing Machine Setters, Operators, and Tenders	Paper Goods Machine Setters, Operators, and Tenders
10+ years	0%	0%	Doctoral	0%	0%
8-10 years	0%	3%	Professional Degree	0%	0%
6-8 years	0%	0%	Post-Masters Cert	0%	0%
4-6 years	1%	0%	Master's Degree	0%	0%
2-4 years	13%	0%	Post-Bachelor Cert	0%	0%
1-2 years	23%	41%	Bachelors	0%	0%
6-12 months	1%	1%	AA or Equiv	0%	0%
3-6 months	12%	5%	Some College	10%	0%
1-3 months	1%	16%	Post-Secondary Certificate	1%	0%
0-1 month	10%	3%	High School Diploma or GED	60%	74%
			No HSD or GED	27%	24%

None	36%			27%		
Cutting and Slicing Machine Setters, Operators, and Tenders			Paper Goods Machine Setters, Operators, and Tenders			
Most Common Educational/Training Requirement:						
Moderate-term on-the-job training			Moderate-term on-the-job training			
Job Zone Comparison						
2 - Job Zone Two: Some Preparation Needed			2 - Job Zone Two: Some Preparation Needed			
Some previous work-related skill, knowledge, or experience may be helpful in these occupations, but usually is not needed. For example, a teller might benefit from experience working directly with the public, but an inexperienced person could still learn to be a teller with little difficulty.			Some previous work-related skill, knowledge, or experience may be helpful in these occupations, but usually is not needed. For example, a teller might benefit from experience working directly with the public, but an inexperienced person could still learn to be a teller with little difficulty.			
These occupations usually require a high school diploma and may require some vocational training or job-related course work. In some cases, an associate's or bachelor's degree could be needed.			These occupations usually require a high school diploma and may require some vocational training or job-related course work. In some cases, an associate's or bachelor's degree could be needed.			
Employees in these occupations need anywhere from a few months to one year of working with experienced employees.			Employees in these occupations need anywhere from a few months to one year of working with experienced employees.			

Tasks

Cutting and Slicing Machine Setters, Operators, and Tenders	Paper Goods Machine Setters, Operators, and Tenders
Core Tasks	Core Tasks
Generalized Work Activities:	Generalized Work Activities:
<ul style="list-style-type: none"> Controlling Machines and Processes - Using either control mechanisms or direct physical activity to operate machines or processes (not including computers or vehicles). Handling and Moving Objects - Using hands and arms in handling, installing, positioning, and moving materials, and manipulating things. Performing General Physical Activities - Performing physical activities that require considerable use of your arms and legs and moving your whole body, such as climbing, lifting, balancing, walking, stooping, and handling of materials. Getting Information - Observing, receiving, and otherwise obtaining information from all relevant sources. Communicating with Supervisors, Peers, or Subordinates - Providing information to supervisors, co-workers, and subordinates by telephone, in written form, e-mail, or in person. 	<ul style="list-style-type: none"> Controlling Machines and Processes - Using either control mechanisms or direct physical activity to operate machines or processes (not including computers or vehicles). Monitor Processes, Materials, or Surroundings - Monitoring and reviewing information from materials, events, or the environment, to detect or assess problems. Getting Information - Observing, receiving, and otherwise obtaining information from all relevant sources. Inspecting Equipment, Structures, or Material - Inspecting equipment, structures, or materials to identify the cause of errors or other problems or defects. Handling and Moving Objects - Using hands and arms in handling, installing, positioning, and moving materials, and manipulating things.
Specific Tasks	Specific Tasks
Occupation Specific Tasks:	Occupation Specific Tasks:
<ul style="list-style-type: none"> Adjust machine controls to alter position, alignment, speed, or pressure. Change or replace saw blades, cables, cutter heads, and grinding wheels, using hand tools. Clean and lubricate cutting machines, conveyors, blades, saws, or knives, using steam hoses, scrapers, brushes, or oil 	<ul style="list-style-type: none"> Adjust guide assemblies, forming bars, and folding mechanisms according to specifications, using hand tools. Cut products to specified dimensions, using hand or power cutters. Disassemble machines to maintain, repair, or replace broken or worn parts, using hand or power tools. Examine completed work to detect defects and verify conformance to work orders,



carts.

- Cut stock manually to prepare for machine cutting, using tools such as knives, cleavers, handsaws, or hammers and chisels.
- Direct workers on cutting teams.
- Examine, measure, and weigh materials or products to verify conformance to specifications, using measuring devices such as rulers, micrometers, or scales.
- Feed stock into cutting machines, onto conveyors, or under cutting blades, by threading, guiding, pushing, or turning handwheels.
- Maintain production records, such as quantities, types, and dimensions of materials produced.
- Mark cutting lines or identifying information on stock, using marking pencils, rulers, or scribes.
- Monitor operation of cutting or slicing machines to detect malfunctions or to determine whether supplies need replenishment.
- Move stock or scrap to and from machines manually, or by using carts, handtrucks, or lift trucks.
- Operate cranes, or signal crane operators to position or remove stone from cars or saw beds.
- Position stock along cutting lines, or against stops on beds of scoring or cutting machines.
- Position width gauge blocks between blades, and level blades and insert wedges into frames to secure blades to frames.
- Press buttons, pull levers, or depress pedals to start and operate cutting and slicing machines.
- Remove completed materials or products from cutting or slicing machines, and stack or store them for additional processing.
- Remove defective or substandard materials from machines, and readjust machine components so that products meet standards.
- Review work orders, blueprints, specifications, or job samples to determine components, settings, and adjustments for cutting and slicing machines.
- Select and install machine components such as cutting blades, rollers, and templates, according to specifications, using hand tools.
- Set up, operate, or tend machines that cut or slice materials, such as glass, stone, cork, rubber, tobacco, food, paper, or insulating material.
- Sharpen cutting blades, knives, or saws, using files, bench grinders, or honing stones.

Stack and sort cut material for packaging

and adjust machinery as necessary to correct production problems.

- Fill glue and paraffin reservoirs, and position rollers to dispense glue onto paperboard.
- Install attachments to machines for gluing, folding, printing, or cutting.
- Lift tote boxes of finished cartons, and dump cartons into feed hoppers.
- Load automatic stapling mechanisms.
- Measure, space, and set saw blades, cutters, and perforators, according to product specifications.
- Monitor finished cartons as they drop from forming machines into rotating hoppers and then into gravity feed chutes, in order to prevent jamming.
- Observe operation of various machines to detect and correct machine malfunctions such as improper forming, glue flow, or pasteboard tension.
- Place rolls of paper or cardboard on machine feedtracks, and thread paper through gluing, coating, and slitting rollers.
- Remove finished cores, and stack or place them on conveyors for transfer to other work areas.
- Stamp products with information such as dates, using hand stamps or automatic stamping devices.
- Start machines and move controls to regulate tension on pressure rolls, to synchronize speed of machine components, and to adjust temperatures of glue or paraffin.

Detailed Tasks

Detailed Work Activities:

- adjust production equipment/machinery setup
- examine products or work to verify conformance to specifications
- install equipment or attachments on machinery or related structures
- load or unload material or workpiece into machinery
- load, unload, or stack containers, materials, or products
- maintain consistent production quality
- maintain or repair industrial or related equipment/machinery
- monitor production machinery/equipment operation to detect problems
- move or fit heavy objects
- operate pulp or paper making equipment
- read specifications
- read work order, instructions, formulas, or processing charts
- set up production equipment or machinery
- understand technical operating, service or



- Stack and sort cut material for packaging, further processing, or shipping, according to types and sizes of material.
- Start machines to verify setups, and make any necessary adjustments.
- Start pumps to circulate water and abrasives onto blades or cables during cutting.
- Tighten pulleys or add abrasives to maintain cutting speeds.
- Turn cranks or press buttons to activate winches that move cars under sawing cables or saw frames.
- Type instructions on computer keyboards, push buttons to activate computer programs, or manually set cutting guides, clamps, and knives.
- Wash stones, using water hoses.

Detailed Tasks

Detailed Work Activities:

- adjust production equipment/machinery setup
- attach or mark identification onto products or containers
- clean equipment or machinery
- cut or shape stone, tile, brick, or related material
- direct and coordinate activities of workers or staff
- examine products or work to verify conformance to specifications
- install equipment or attachments on machinery or related structures
- load or unload material or workpiece into machinery
- load, unload, or stack containers, materials, or products
- maintain consistent production quality
- maintain or repair industrial or related equipment/machinery
- maintain production or work records
- measure, weigh, or count products or materials
- monitor production machinery/equipment operation to detect problems
- operate forklift
- operate glass or stone working equipment/machinery
- operate hoist, winch, or hydraulic boom
- operate metal or plastic fabricating equipment/machinery
- operate woodworking equipment/machinery
- perform safety inspections in manufacturing or industrial setting
- read blueprints
- read specifications
- read technical drawings

repair manuals

- use hand or power tools
- use precision measuring tools or equipment



- read work order, instructions, formulas, or processing charts
- set up production equipment or machinery
- signal directions or warnings to coworkers
- sort manufacturing materials or products
- understand technical operating, service or repair manuals
- use hand or power tools
- use hand or power woodworking tools
- use precision measuring tools or equipment
- work as a team member

Labor Market Comparison

Description	Cutting and Slicing Machine Setters, Operators, and Tenders	Paper Goods Machine Setters, Operators, and Tenders	Difference
Median Wage	\$ 31,350	\$ 38,230	\$ 6,880
10th Percentile Wage	\$ 23,000	\$ 25,850	\$ 2,850
25th Percentile Wage	N/A	N/A	N/A
75th Percentile Wage	\$ 43,790	\$ 45,200	\$ 1,410
90th Percentile Wage	\$ 49,280	\$ 51,680	\$ 2,400
Mean Wage	\$ 34,670	\$ 38,330	\$ 3,660
Total Employment - 2007	710	910	200
Employment Base - 2006	767	951	184
Projected Employment - 2016	593	700	107
Projected Job Growth - 2006-2016	-22.7 %	-26.4 %	-3.7 %
Projected Annual Openings - 2006-2016	12	23	11

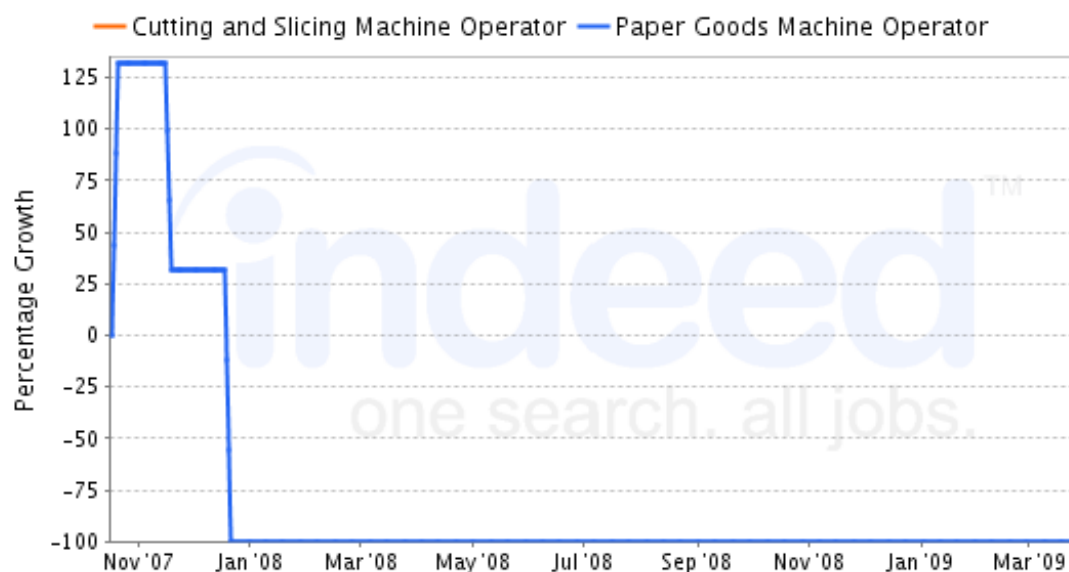
National Job Posting Trends

Trend for Cutting and Slicing Machine Setters, Operators, and Tenders

Trend for
Paper
Goods
Machine
Setters,
Operators,
and
Tenders



Job Trends from Indeed.com



Data from [Indeed](http://Indeed.com)

Recommended Programs

No program data for the occupation.

Maine Statewide Promotion Opportunities for Cutting and Slicing Machine Setters, Operators, and Tenders

O* NET Code	Title	Grand TORQ	Job Zone	Employment	Median Wage	Difference	Growth	Annual Job Openings
51-9032.00	Cutting and Slicing Machine Setters, Operators, and Tenders	100	2	710	\$31,350.00	\$0.00	-23%	12
51-9196.00	Paper Goods Machine Setters, Operators, and Tenders	90	2	910	\$38,230.00	\$6,880.00	-26%	23
51-4023.00	Rolling Machine Setters, Operators, and Tenders, Metal and Plastic	87	2	0	\$33,460.00	\$2,110.00	0%	0
51-9023.00	Mixing and Blending Machine Setters, Operators, and Tenders	86	1	420	\$36,040.00	\$4,690.00	-9%	7
51-5021.00	Job Printers	86	3	140	\$31,890.00	\$540.00	-10%	2
51-9051.00	Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders	86	2	300	\$32,980.00	\$1,630.00	-18%	9



51-9121.00	Coating, Painting, and Spraying Machine Setters, Operators, and Tenders	86	2	850	\$38,860.00	\$7,510.00	-26%	19
51-4034.00	Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic	85	3	110	\$34,350.00	\$3,000.00	-9%	2
51-4121.07	Solderers and Brazers	85	2	1,610	\$38,030.00	\$6,680.00	7%	49
51-4193.00	Plating and Coating Machine Setters, Operators, and Tenders, Metal and Plastic	84	2	120	\$32,160.00	\$810.00	16%	5
51-4191.00	Heat Treating Equipment Setters, Operators, and Tenders, Metal and Plastic	84	2	40	\$32,470.00	\$1,120.00	-6%	1
51-9011.00	Chemical Equipment Operators and Tenders	84	2	0	\$38,790.00	\$7,440.00	-2%	5
51-2021.00	Coil Winders, Tapers, and Finishers	83	2	90	\$31,910.00	\$560.00	-53%	1
51-4032.00	Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic	83	2	100	\$33,030.00	\$1,680.00	-22%	2
51-4122.00	Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	82	2	120	\$36,960.00	\$5,610.00	2%	3

Top Industries for Paper Goods Machine Setters, Operators, and Tenders

Industry	NAICS	% in Industry	Employment	Projected Employment	% Change
Converted paper product manufacturing	322200	60.48%	68,412	57,411	-16.08%
Pulp, paper, and paperboard mills	322100	21.93%	24,800	17,202	-30.64%
Printing and related support activities	323100	8.22%	9,293	7,363	-20.77%
Newspaper publishers	511110	1.36%	1,536	1,316	-14.33%
Plastics product manufacturing	326100	1.27%	1,439	1,525	6.00%



Wholesale electronic markets and agents and brokers	425100	0.67%	762	865	13.48%
Employment services	561300	0.55%	618	783	26.56%
Animal slaughtering and processing	311600	0.46%	521	595	14.13%
Advertising and related services	541800	0.40%	448	505	12.83%
Paper and paper product merchant wholesalers	424100	0.39%	440	470	6.83%
Other general purpose machinery manufacturing	333900	0.19%	219	198	-9.73%
Miscellaneous durable goods merchant wholesalers	423900	0.09%	100	114	14.81%
Warehousing and storage	493100	0.07%	76	101	33.58%
Other electrical equipment and component manufacturing	335900	0.06%	69	64	-7.34%
Fruit and vegetable preserving and specialty food manufacturing	311400	0.05%	61	55	-9.33%

Top Industries for Cutting and Slicing Machine Setters, Operators, and Tenders

Industry	NAICS	% in Industry	Employment	Projected Employment	% Change
Converted paper product manufacturing	322200	15.71%	12,381	10,390	-16.08%
Printing and related support activities	323100	12.36%	9,738	7,716	-20.77%
Plastics product manufacturing	326100	8.03%	6,327	6,707	6.00%
Pulp, paper, and paperboard mills	322100	5.55%	4,376	3,036	-30.64%
Animal slaughtering and processing	311600	5.30%	4,180	4,770	14.13%
Rubber product manufacturing	326200	4.91%	3,867	2,731	-29.39%
Glass and glass product manufacturing	327200	4.39%	3,461	3,020	-12.76%
Fruit and vegetable preserving and specialty food manufacturing	311400	2.17%	1,712	1,552	-9.33%
Other food manufacturing	311900	1.83%	1,441	1,511	4.85%
Bakeries and tortilla manufacturing	311800	1.60%	1,262	1,289	2.15%
Self-employed workers, primary job	000601	1.56%	1,230	1,311	6.54%
Dairy product manufacturing	311500	1.52%	1,197	1,185	-1.07%
Other chemical product and preparation manufacturing	325900	1.41%	1,108	872	-21.33%
Fabric mills	313200	1.06%	833	588	-29.38%
Veneer, plywood, and engineered wood product manufacturing	321200	0.81%	637	694	8.89%